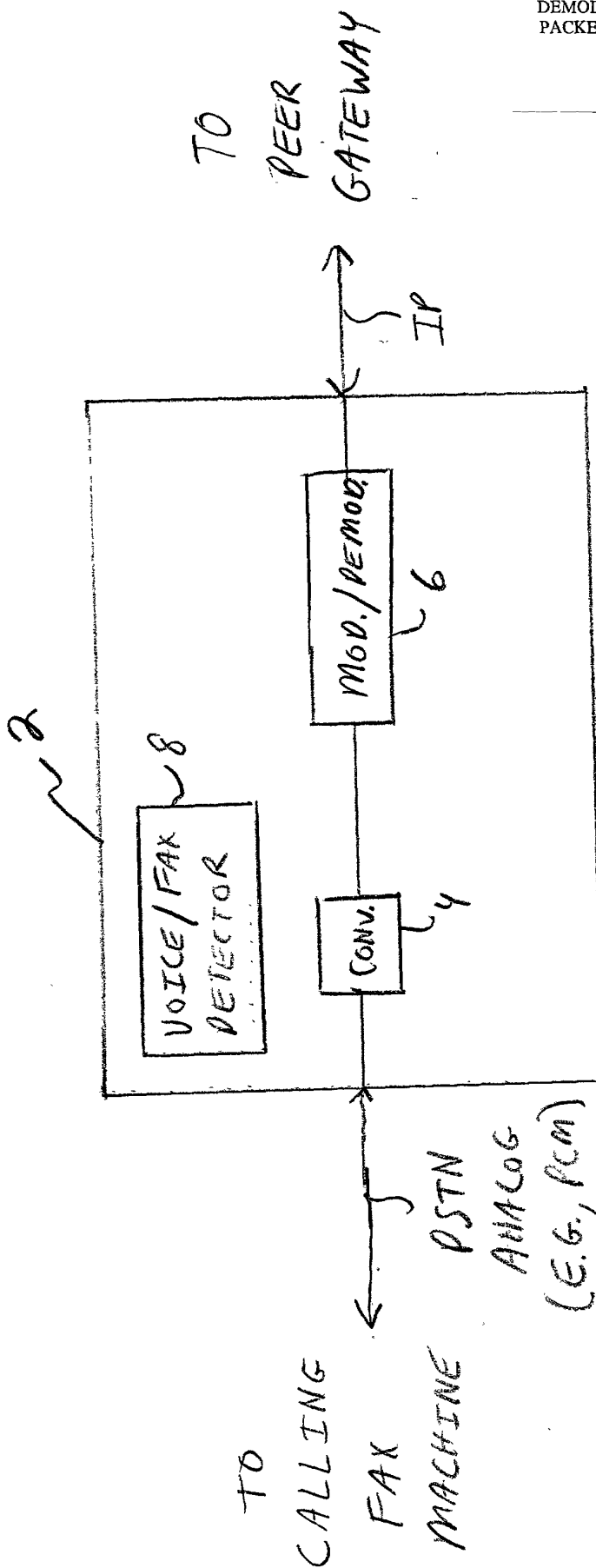Title: A METHOD FOR ELIMINATING
MULTIPLE MODULATING AND
DEMODULATING OF GROUP 3 FAX OVER
PACKET AND LOW DATA RATE DIGITAL
NETWORKS
Inventor(s): JianWei BEI et al.
DOCKET NO.: 079257/0105

TO
PEER
GATEWAY

IP

Fig. 1

PRIOR ART

2

VOICE/FAX
DETECTOR

8

MOD./DEMOD.

6

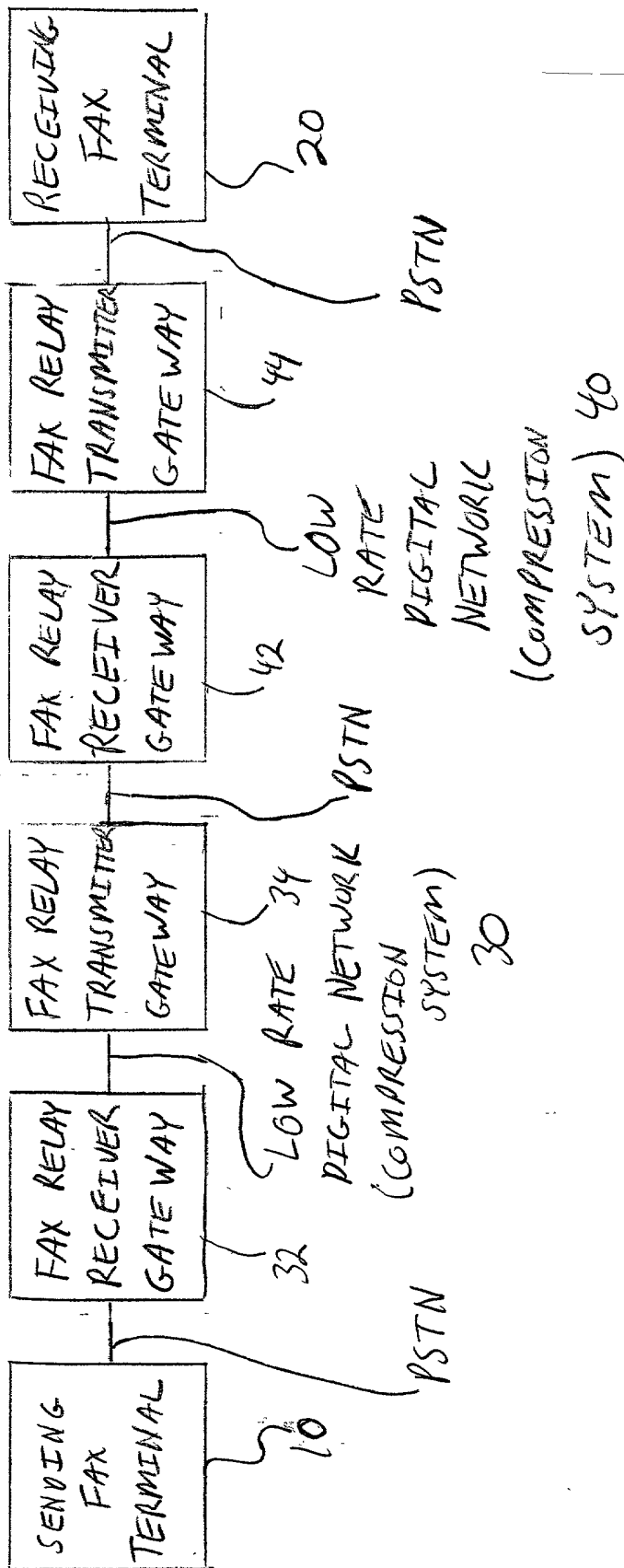CONV.

4

TO
CALLING
FAX
MACHINE

PSTN
ANALOG
(E.G., PCM)

Title: A METHOD FOR ELIMINATING
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Fig. 2

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DOCKET NO.: 079257/0105

Fig. 3

PSTN/
ANALOG
(E.G, PCM)

DIGITAL

VOICE / FAX DETECTOR ~341

TANDEM RELAY ~346

MOD/ DEMOD ~347

CONV. ~342

FAX RELAY BYPASS DET. ~343

~345

~344

~34

Title. A METHOD FOR ELIMINATING
MULTIPLE MODULATING AND
DEMODULATING OF GROUP 3 FAX OVER
PACKET AND LOW DATA RATE DIGITAL
NETWORKS
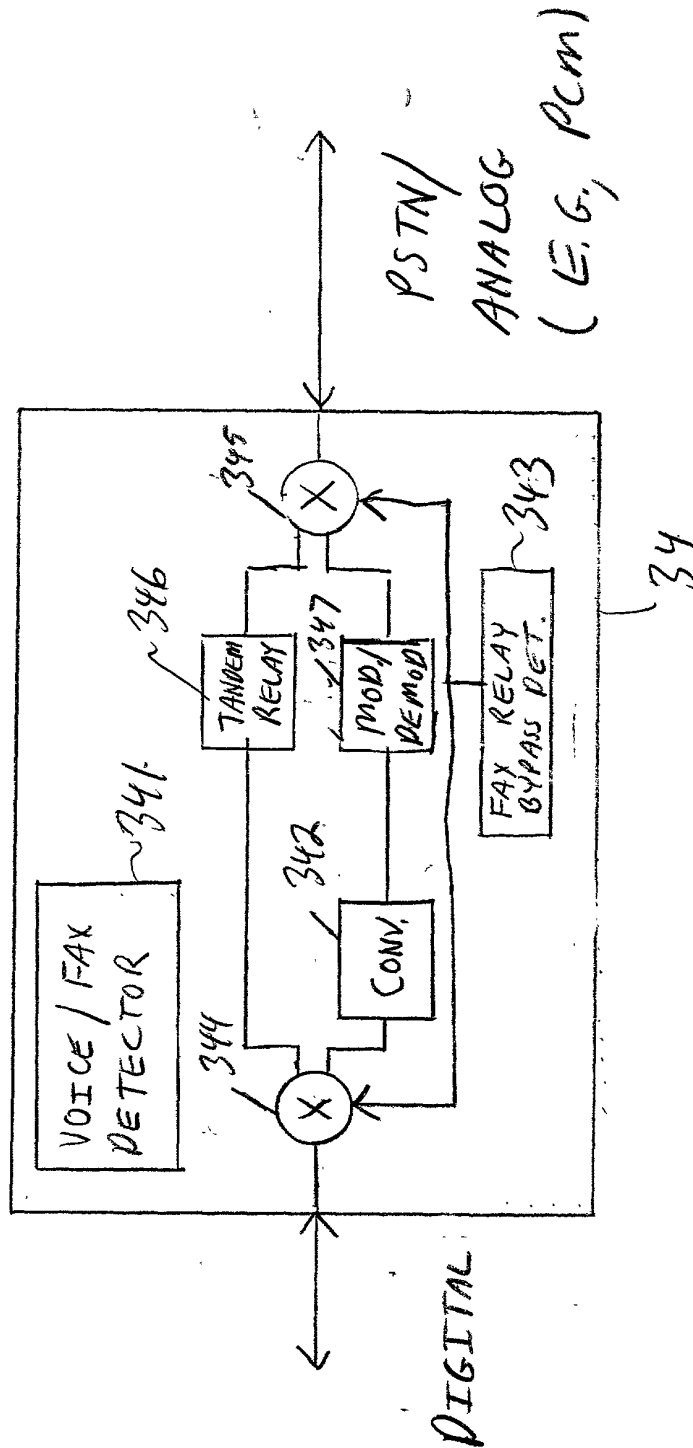Inventor(s): JianWei BEI et al.
DOCKET NO.: 079257/0105

Fig. 4

10 — SENDING FAX TERMINAL

32 — FAX RELAY REC. GATE.

34 — FAX RELAY TRANS. GATE.

42 — FAX RELAY REC. GATE.

44 — FAX RELAY TRANS. GATE.

20 — REC. FAX TERMINAL

↑ VOICE / ↓ FAX

PIS

LCP

PIS

LCP

V.21 CHANNEL 2 PIS

V.21 CHANNEL 1 PROBE

V.21 CHANNEL 1

V.21 CHANNEL 1 RESPONSE TO PROBE

GATEWAY 34 SWITCHED TO FAX BYPASS MODE

GATEWAY 42 SWITCHED TO FAX BYPASS MODE